

FIG. 1

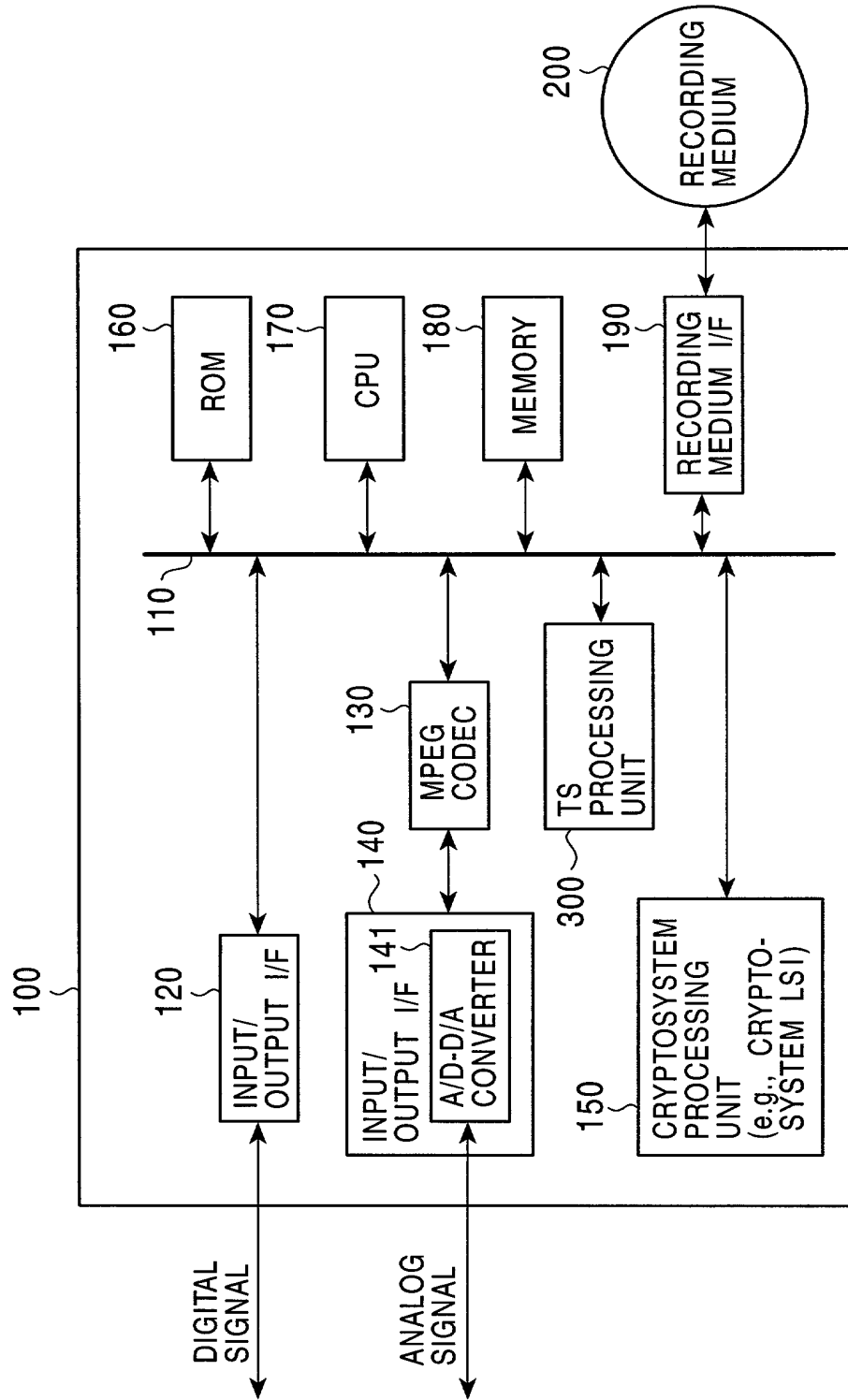


FIG. 2

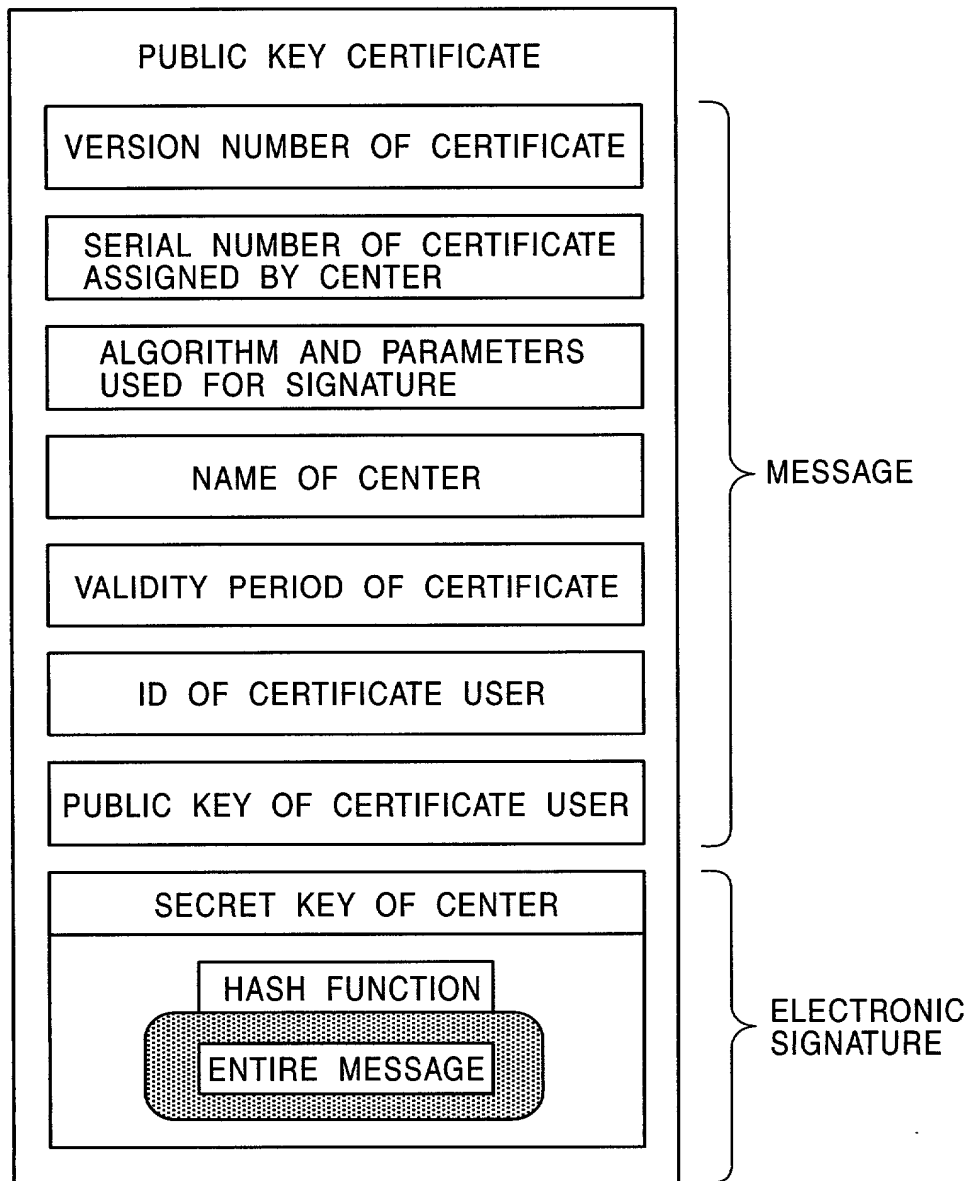


FIG. 3A

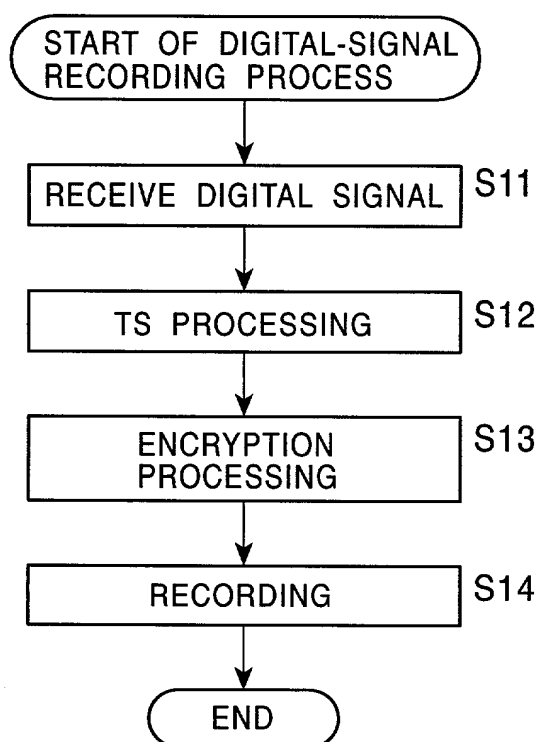


FIG. 3B

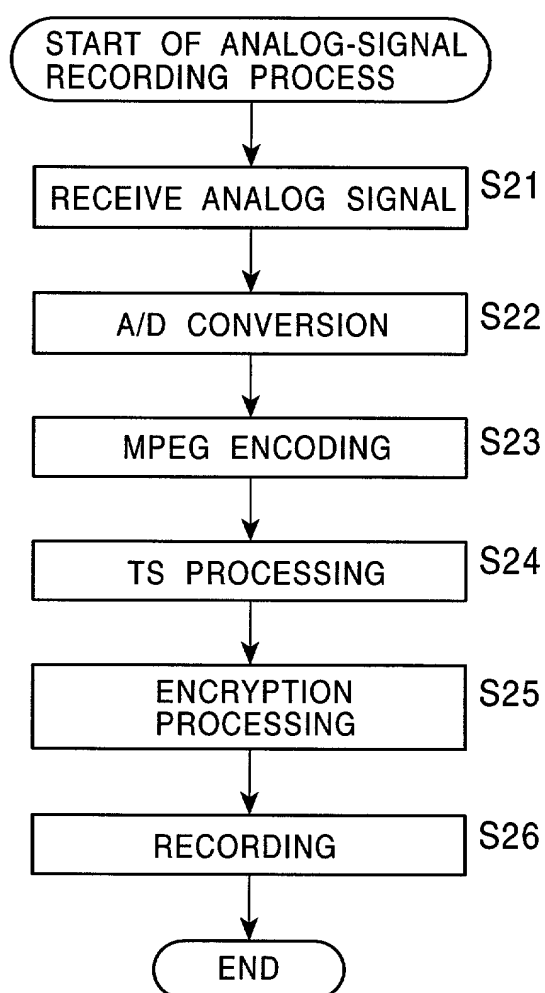


FIG. 4A

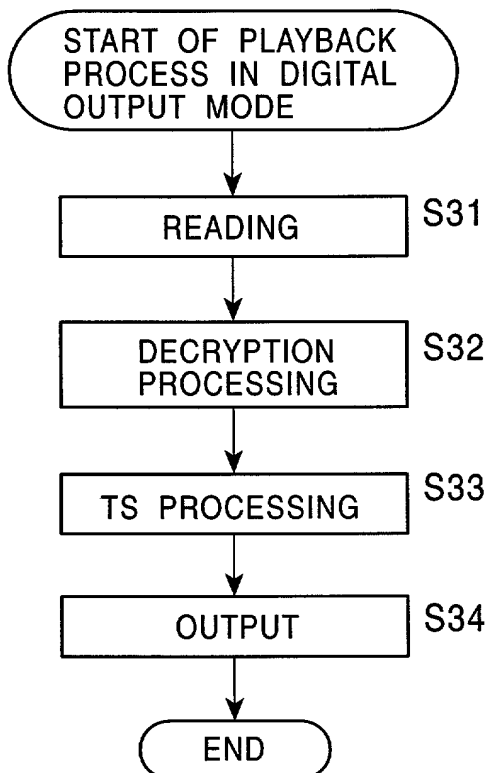


FIG. 4B

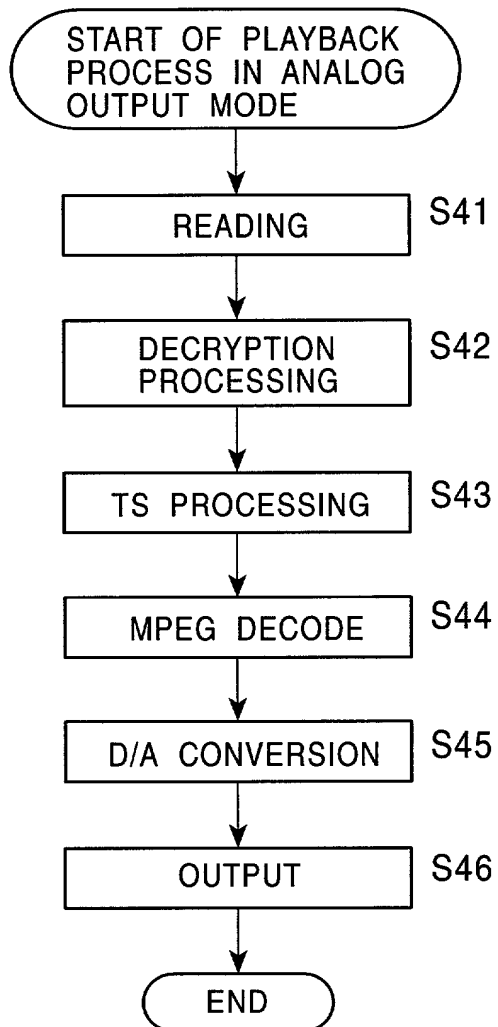


FIG. 5

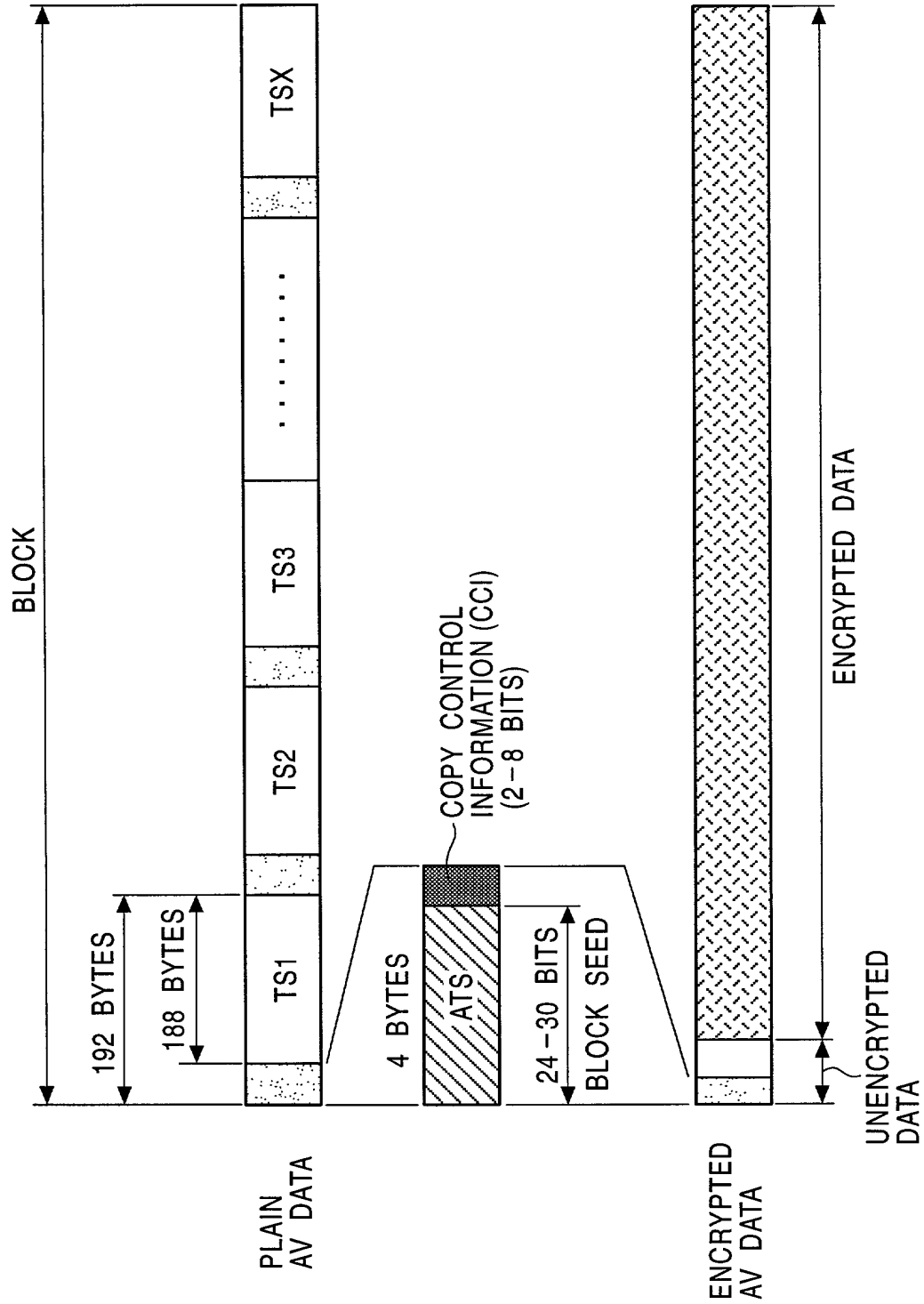
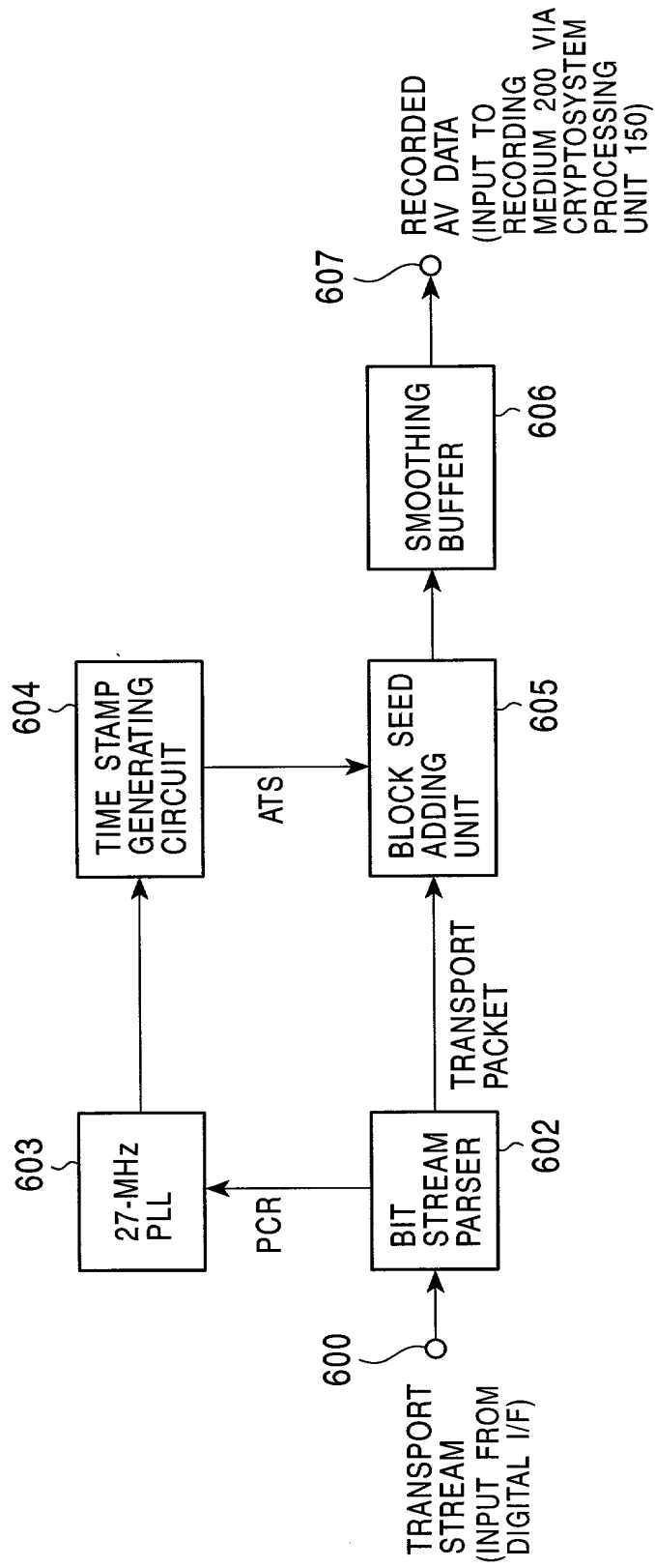


FIG. 6



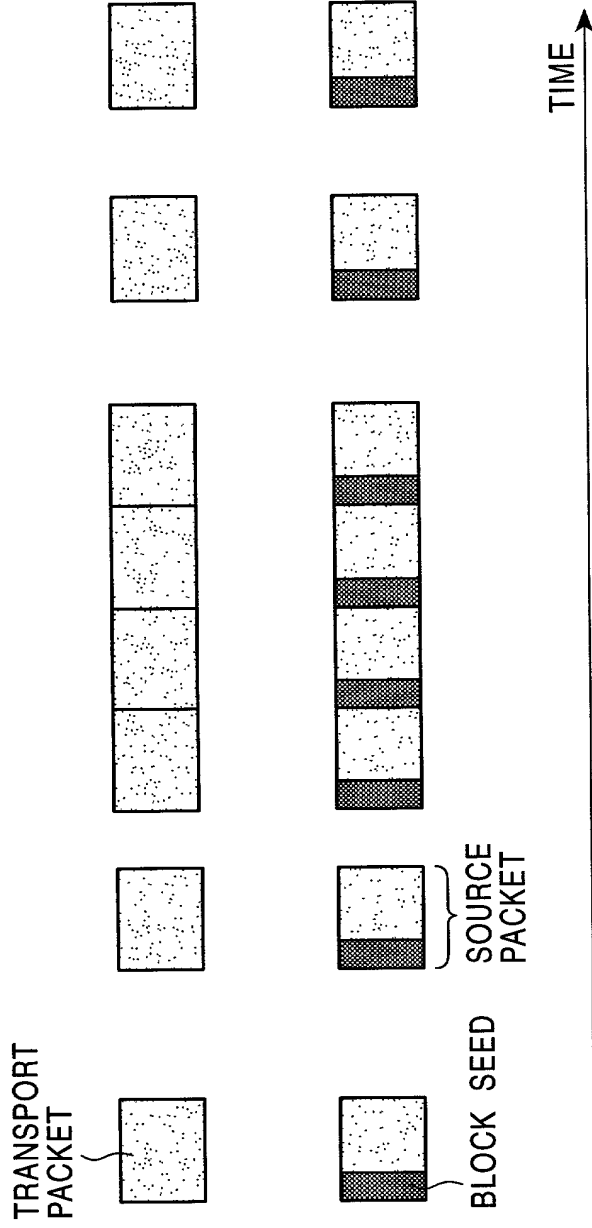


FIG. 7A

FIG. 7B

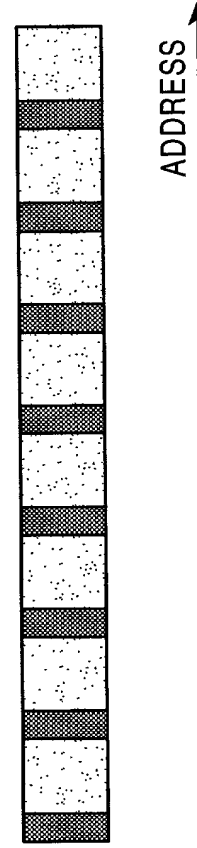


FIG. 7C

FIG. 8

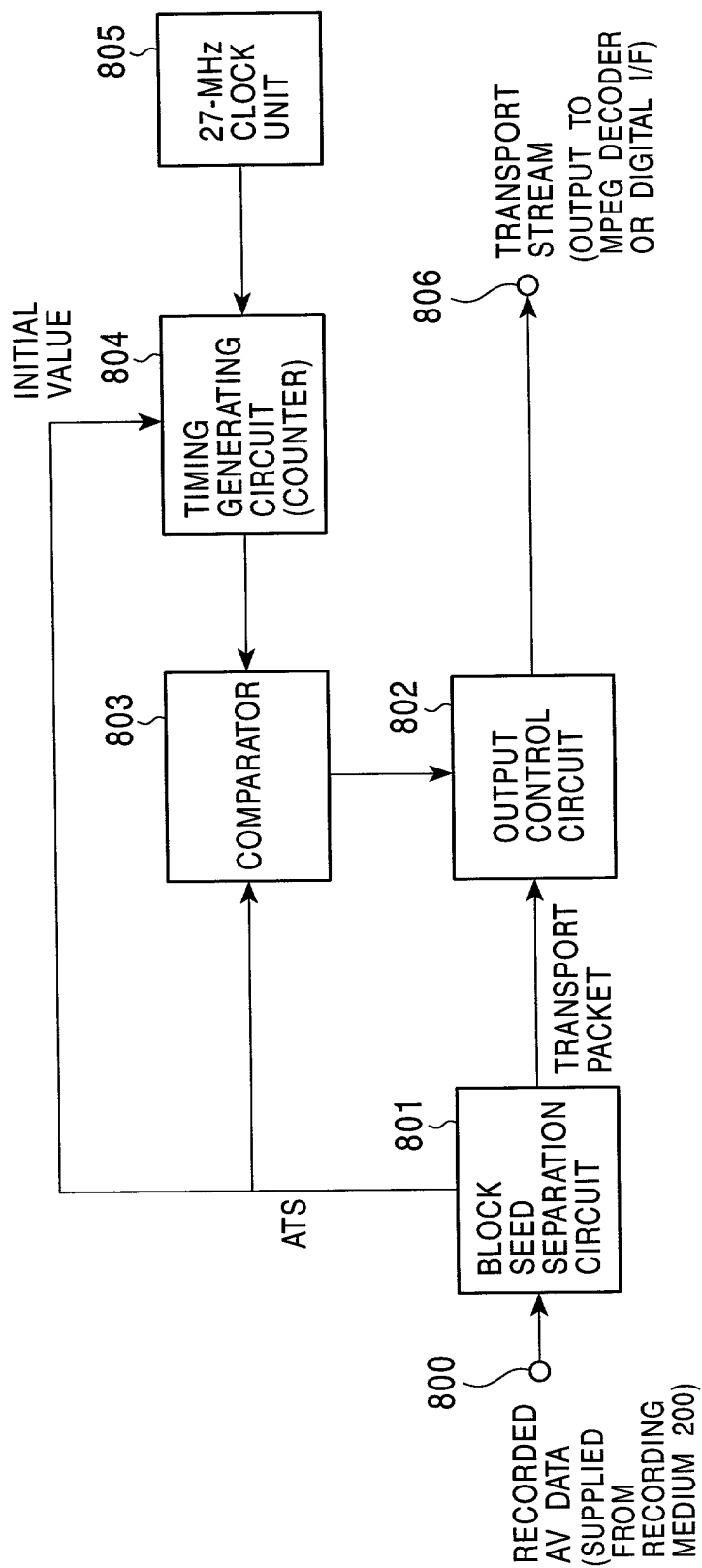


FIG. 9

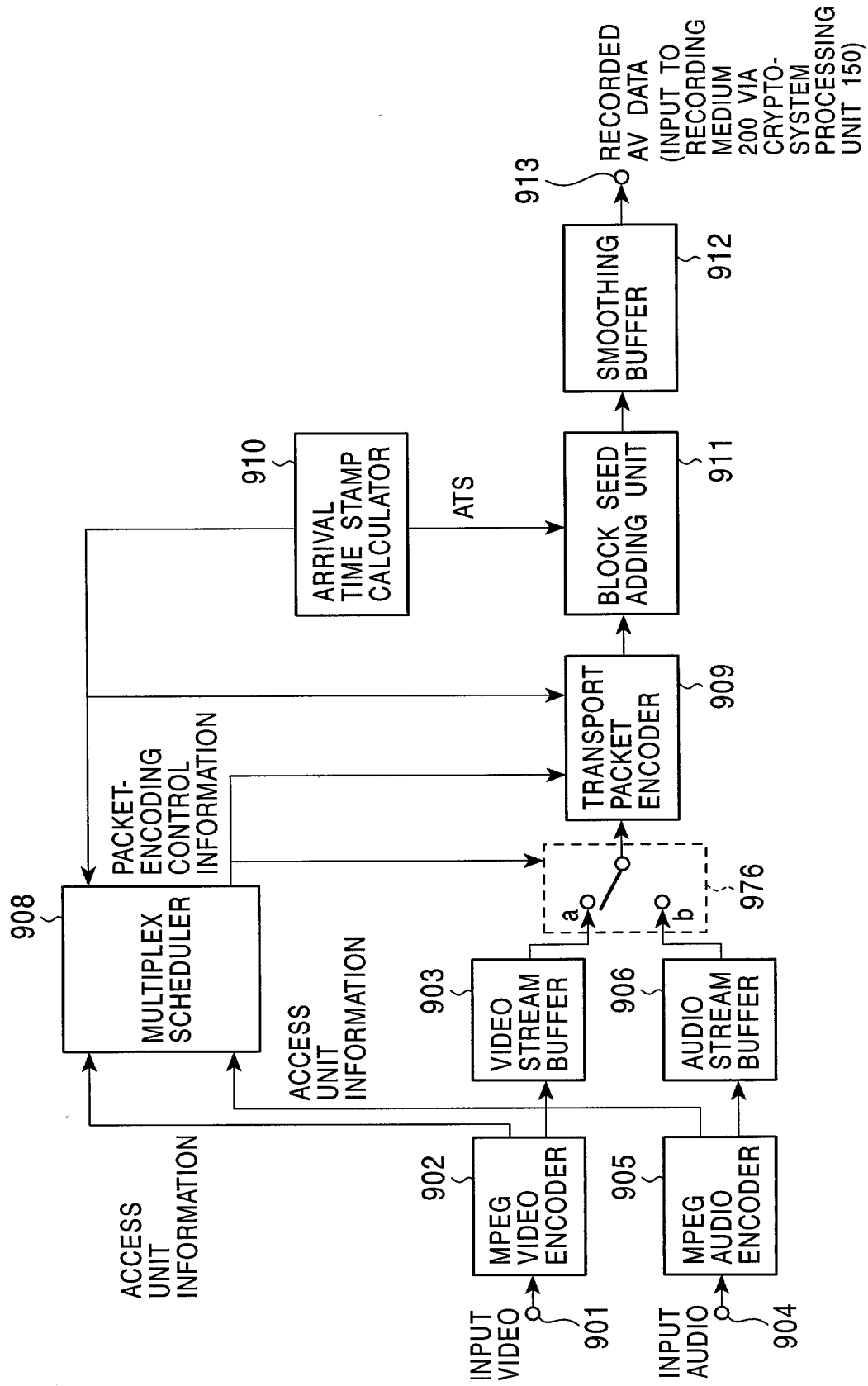
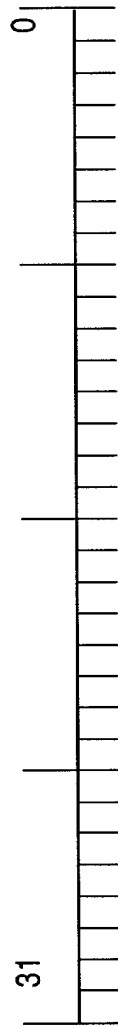
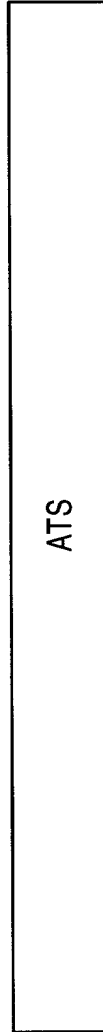


FIG. 10

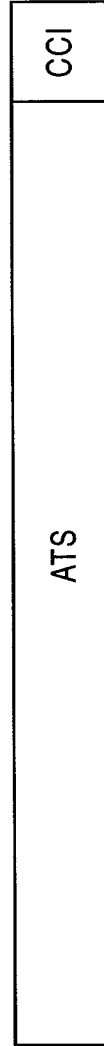


BLOCK SEED

EXAMPLE 1
ATS 32 BITS



EXAMPLE 2
ATS 30 BITS
CCI 2 BITS



EXAMPLE 3
ATS 24 BITS
CCI 2 BITS
OTHER INFO 6 BITS



FIG. 11

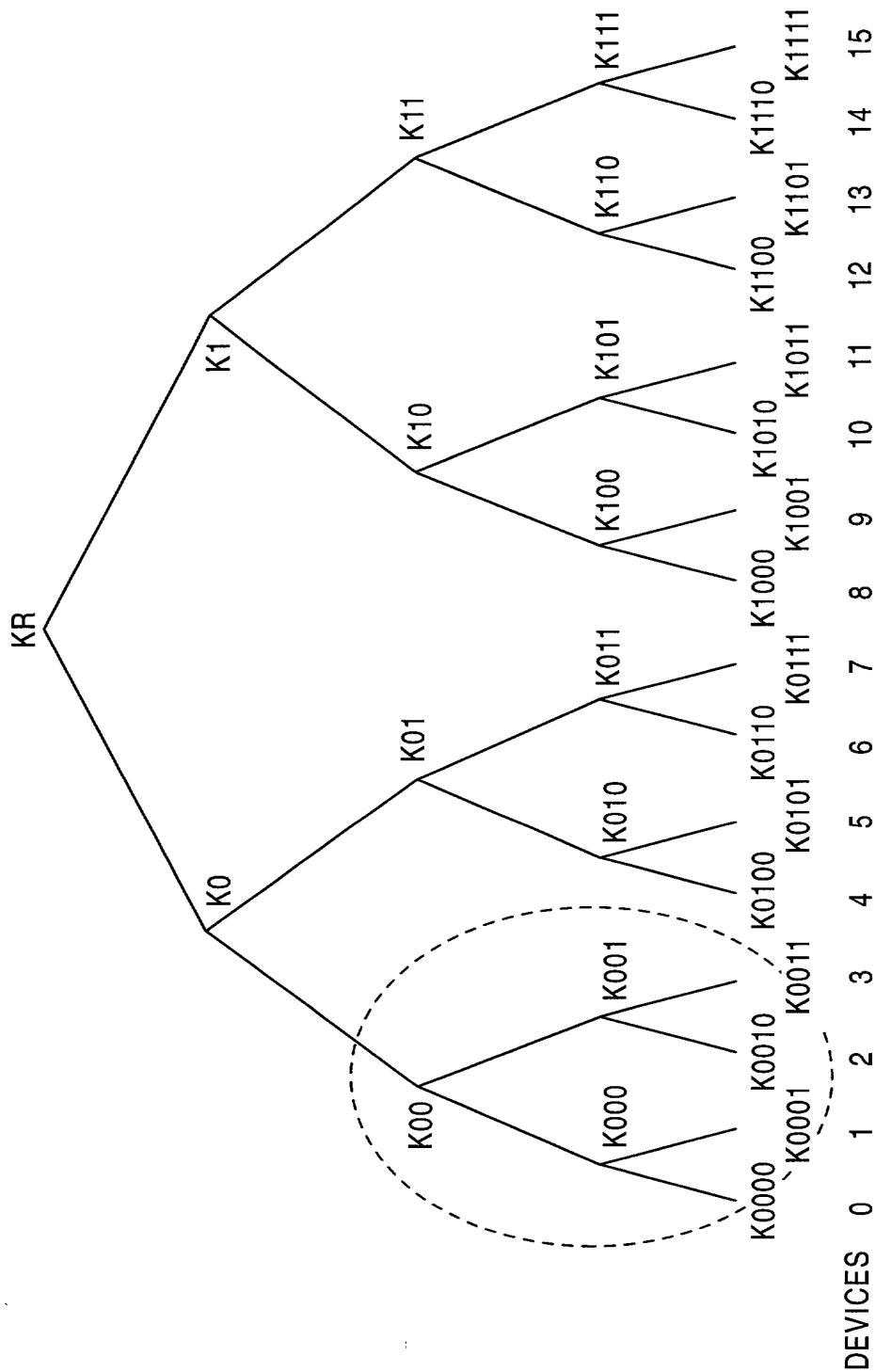


FIG. 12A

GENERATION: t	
INDEX	ENCRYPTION KEY
0	$\text{Enc}(K(t)0, K(t)R)$
00	$\text{Enc}(K(t)00, K(t)0)$
000	$\text{Enc}(K000, K(t)00)$
001	$\text{Enc}(K(t)001, K(t)00)$
0010	$\text{Enc}(K0010, K(t)001)$

FIG. 12B

GENERATION: t	
INDEX	ENCRYPTION KEY
000	$\text{Enc}(K000, K(t)00)$
001	$\text{Enc}(K(t)001, K(t)00)$
0010	$\text{Enc}(K0010, K(t)001)$

FIG. 13

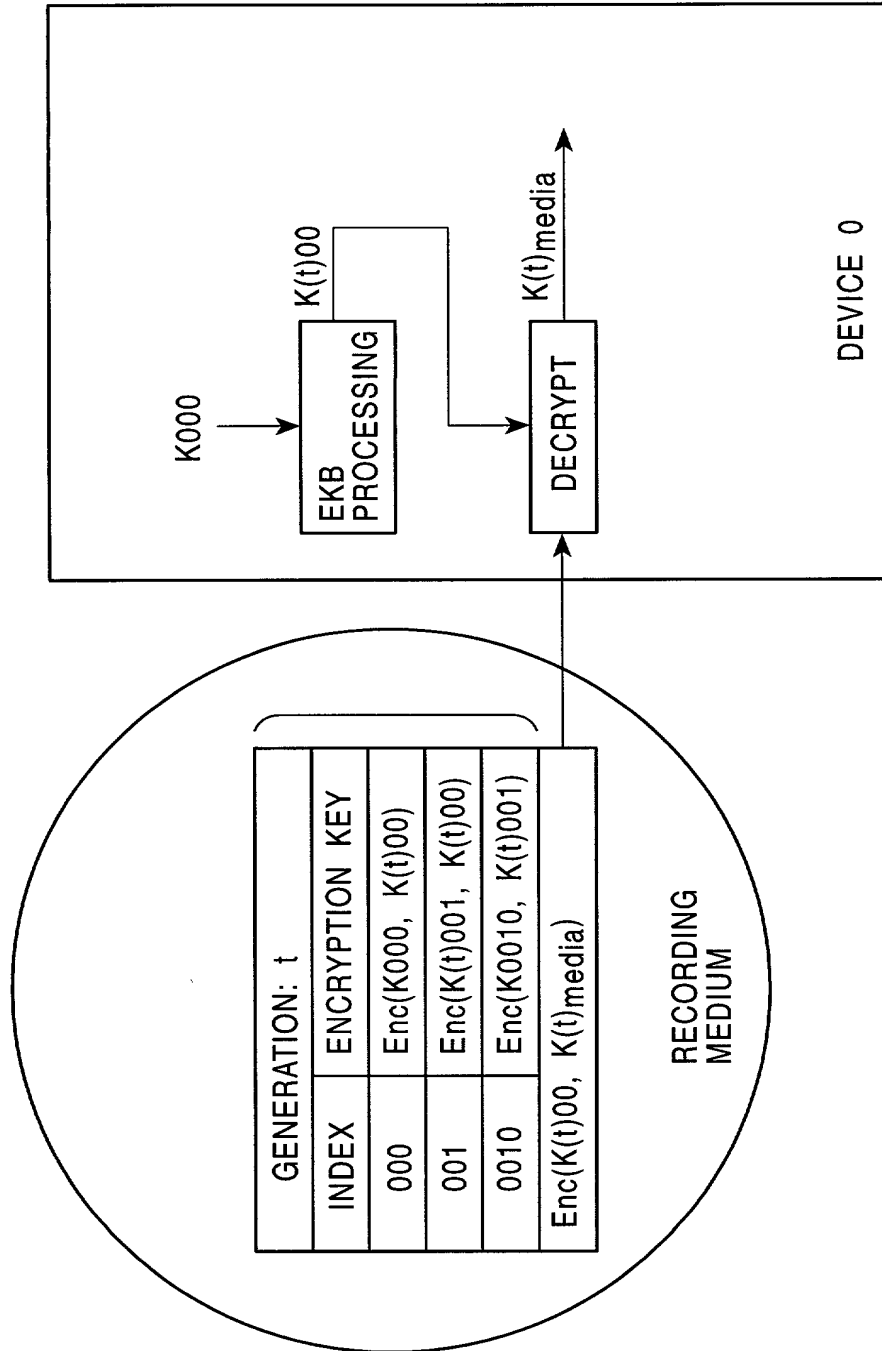


FIG. 14

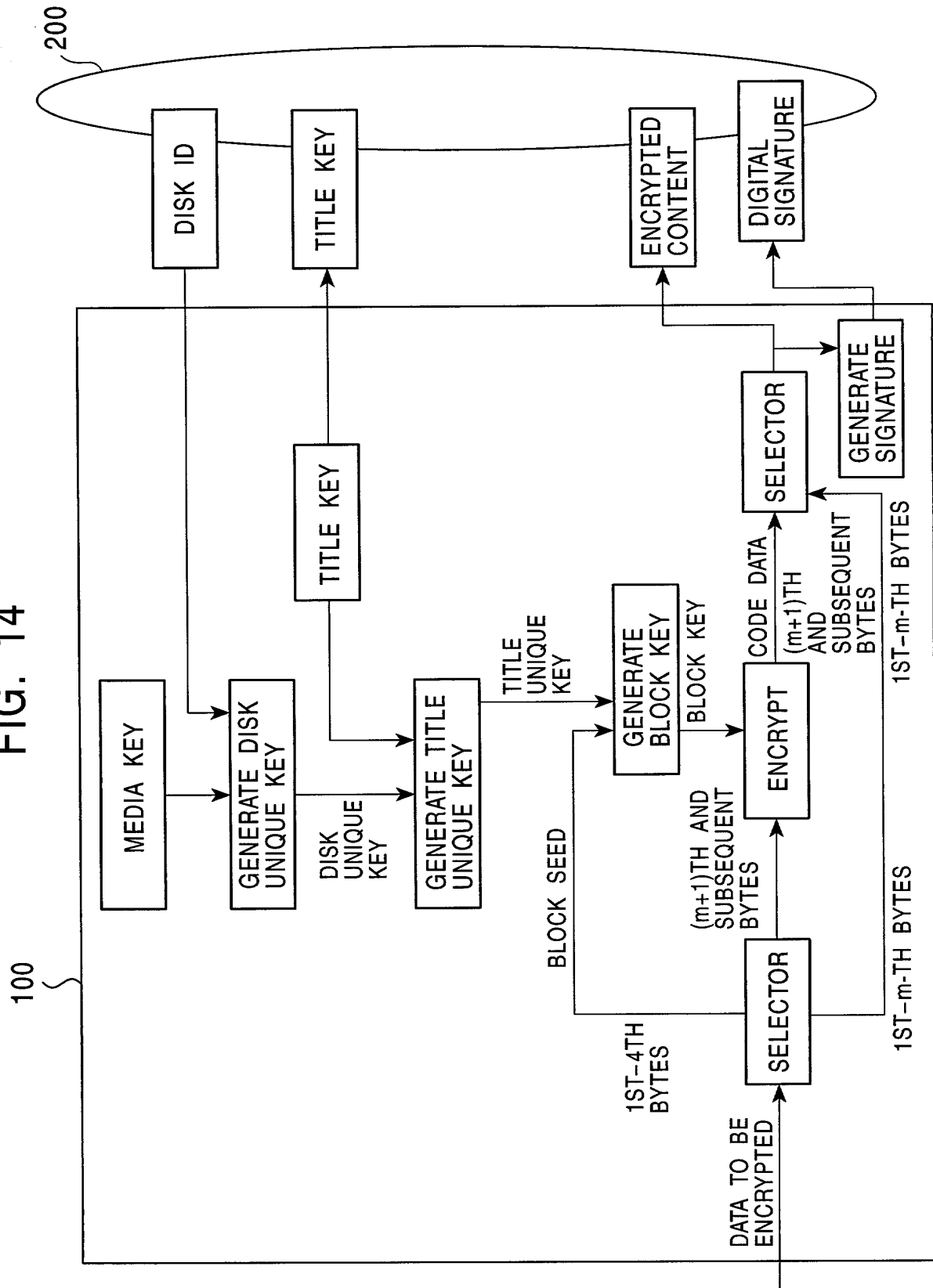


FIG. 15A

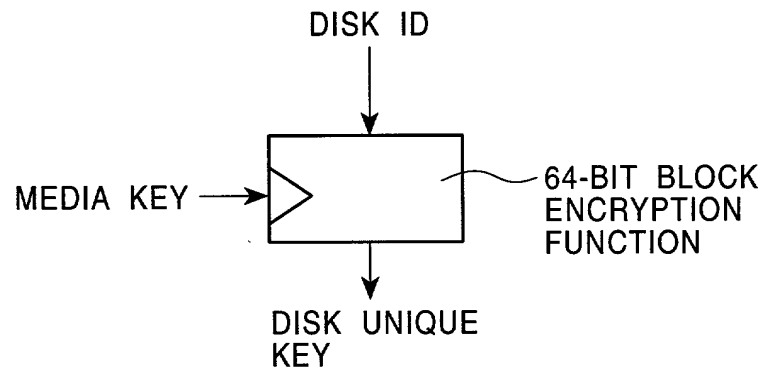


FIG. 15B

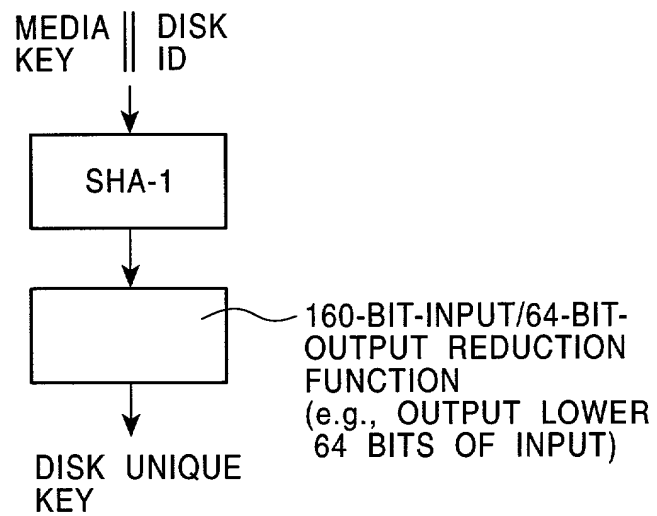


FIG. 16A

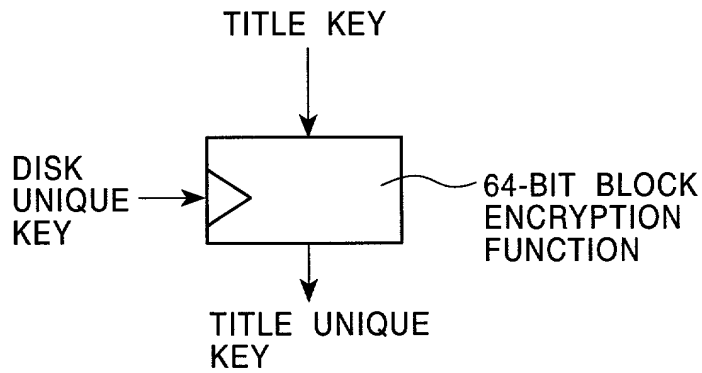


FIG. 16B

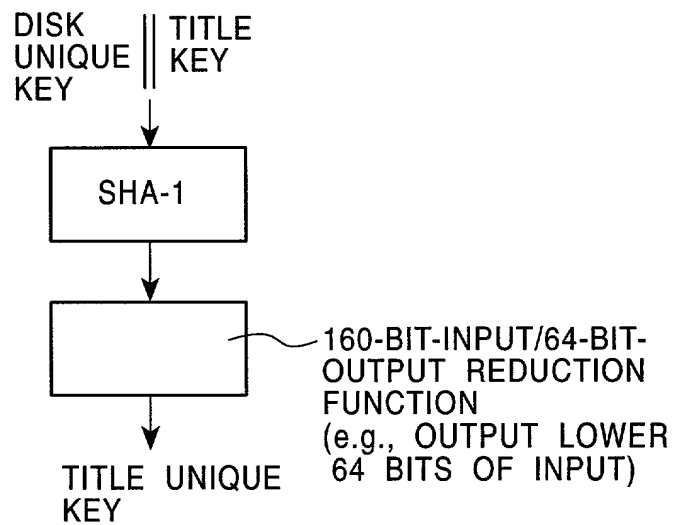


FIG. 17A

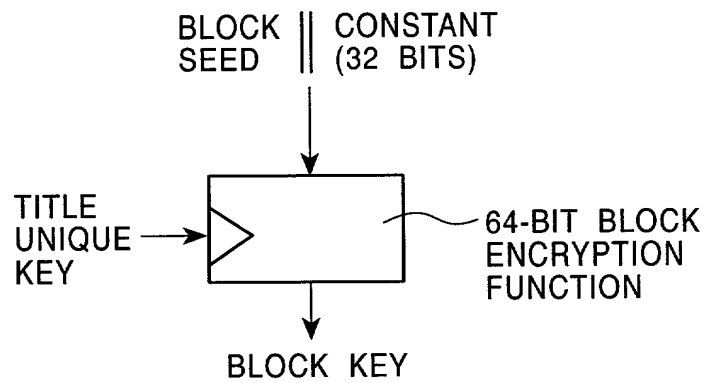


FIG. 17B

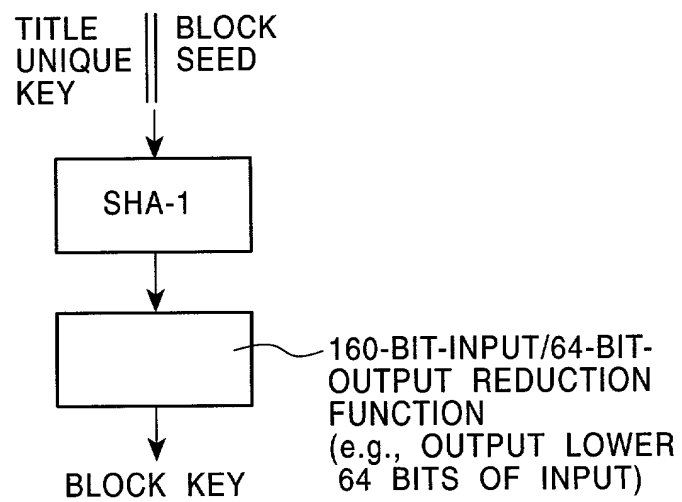


FIG. 18

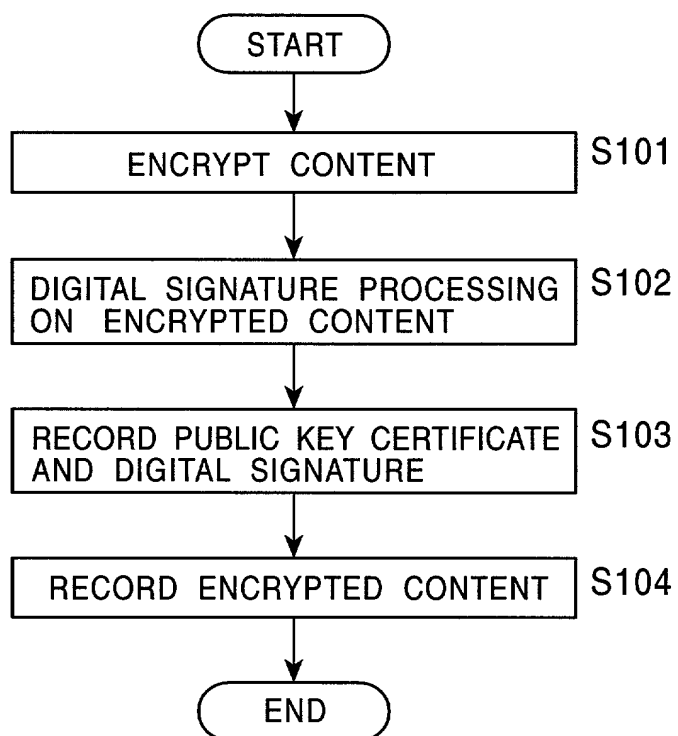


FIG. 19

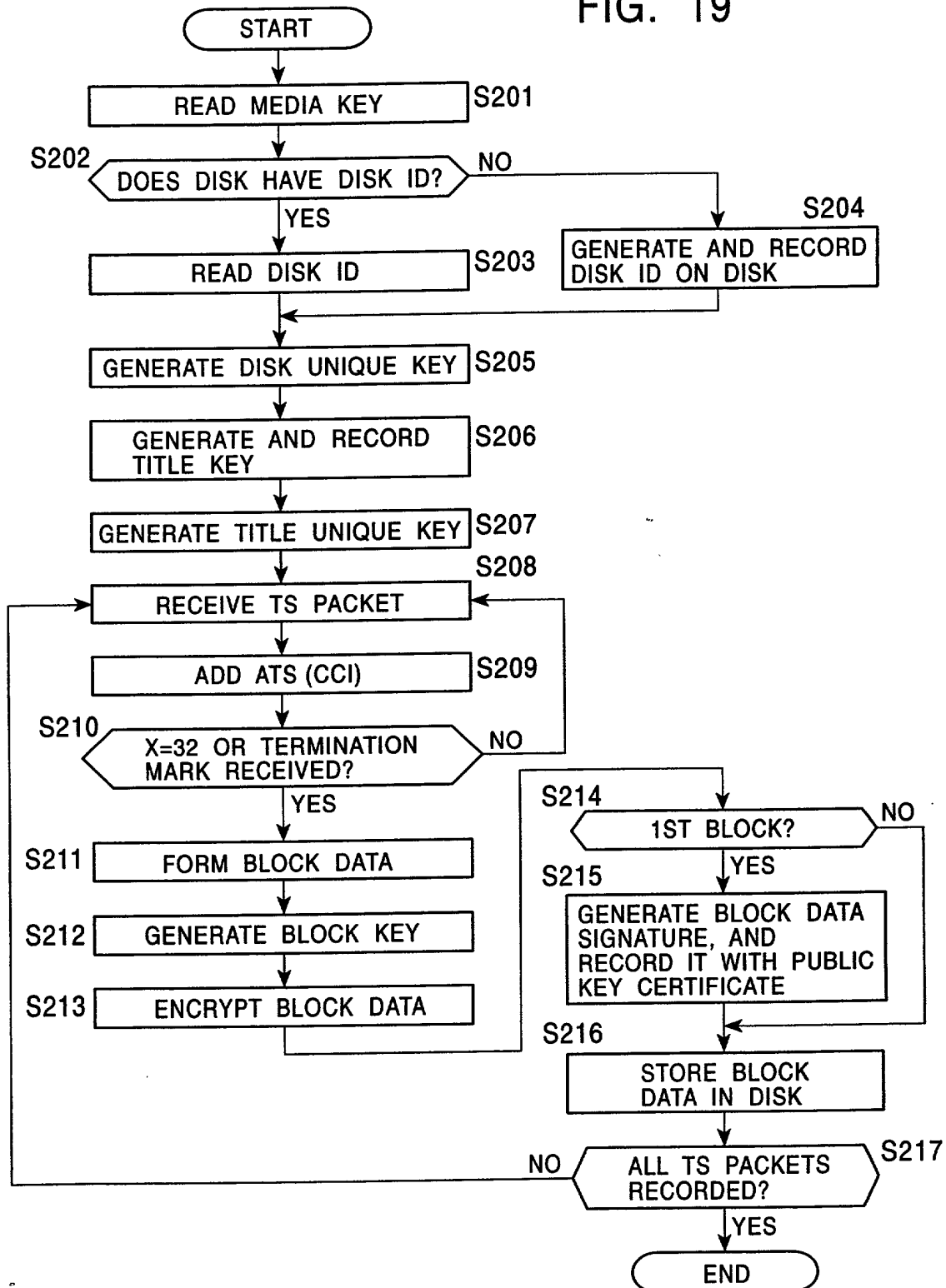


FIG. 20

FILE 1	CONTENT DATA ADDRESS
	TITLE KEY ADDRESS
	DIGITAL SIGNATURE ADDRESS
	PUBLIC KEY CERTIFICATE ADDRESS
	OTHER INFORMATION
FILE 2	CONTENT DATA ADDRESS
	TITLE KEY ADDRESS
	DIGITAL SIGNATURE ADDRESS
	PUBLIC KEY CERTIFICATE ADDRESS
	OTHER INFORMATION
⋮	⋮

FIG. 21

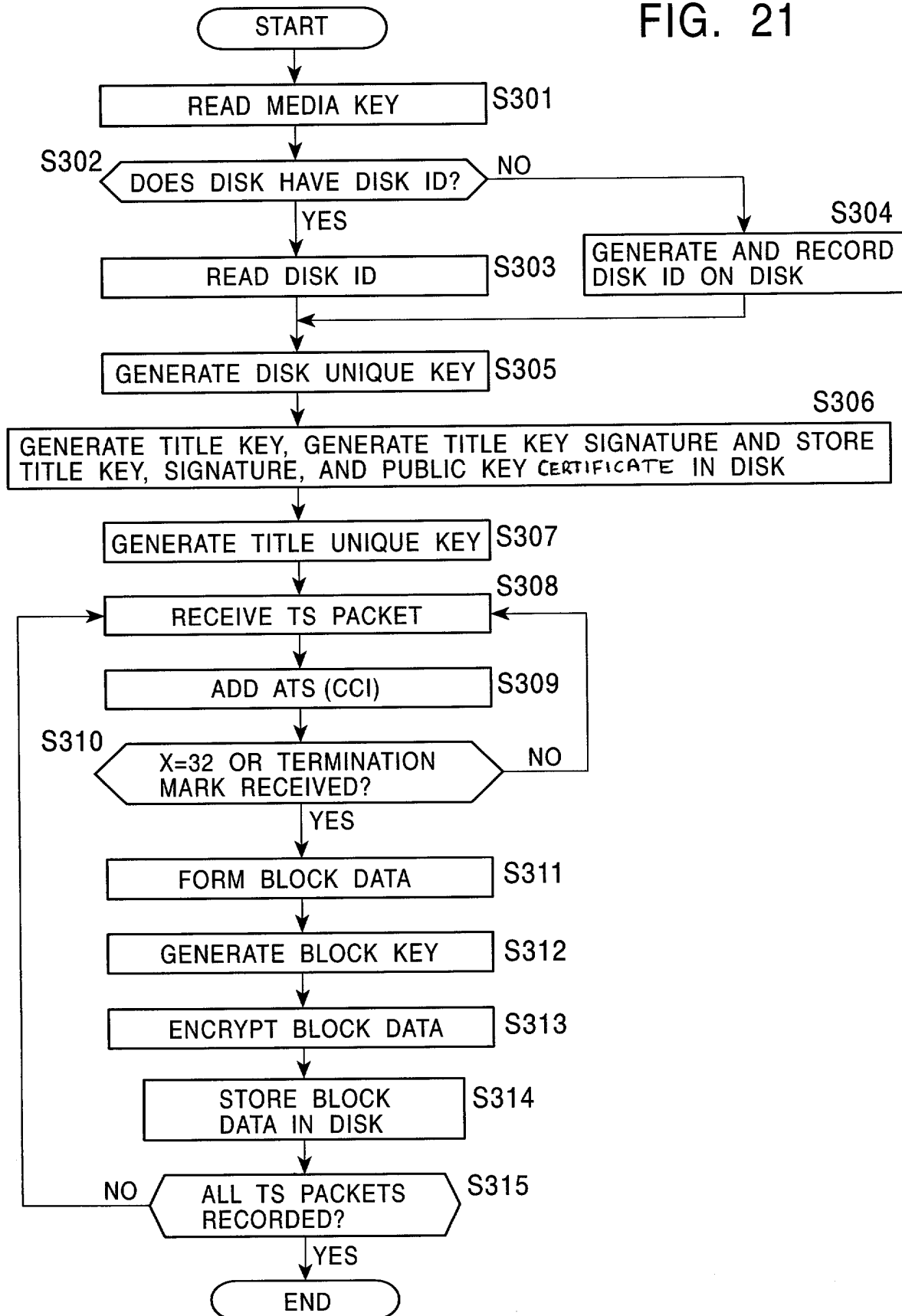


FIG. 22

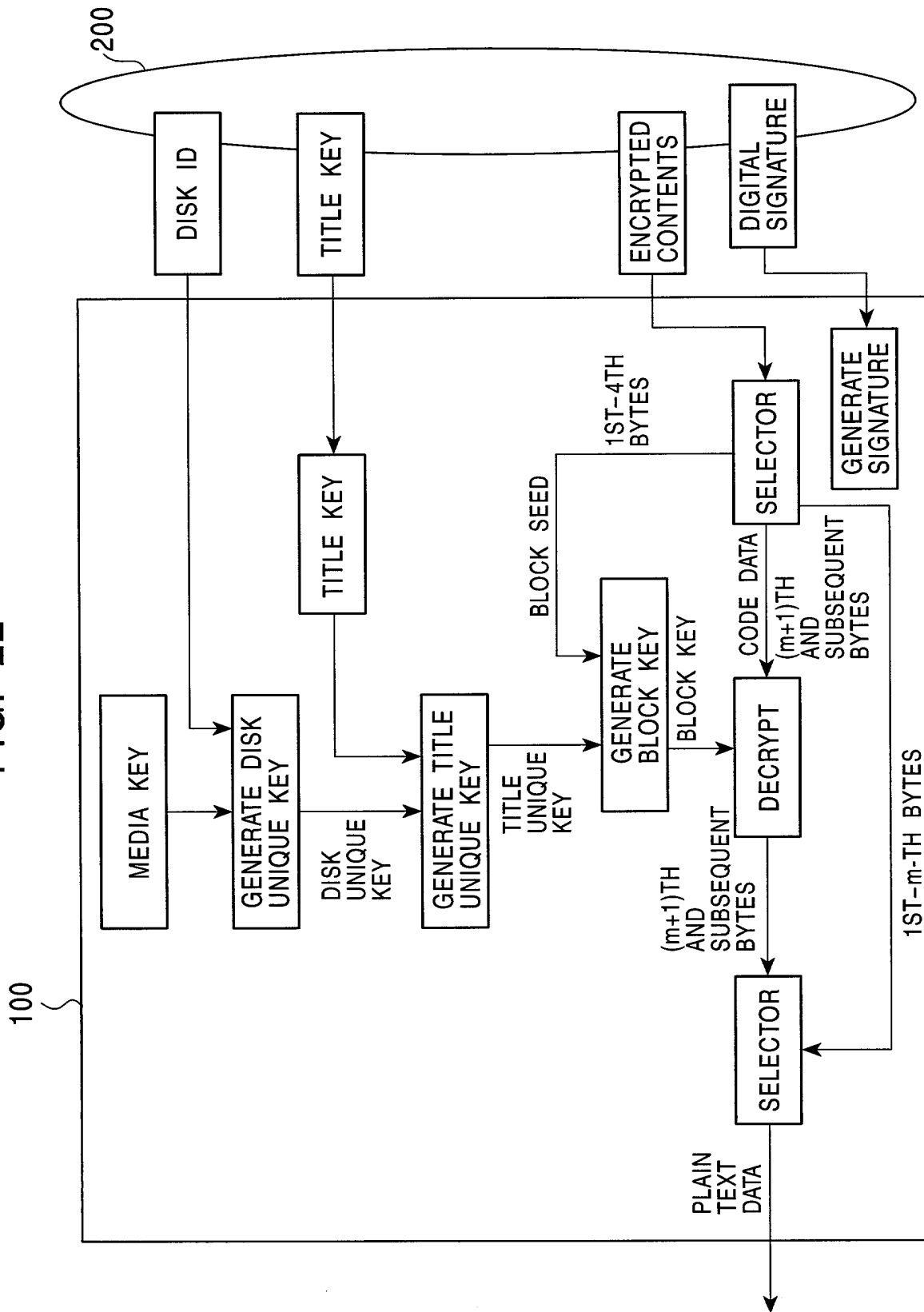


FIG. 23

VERSION NUMBER
ID OF DEVICE TO BE REVOKED
⋮
DIGITAL SIGNATURE OF CENTER

FIG. 24

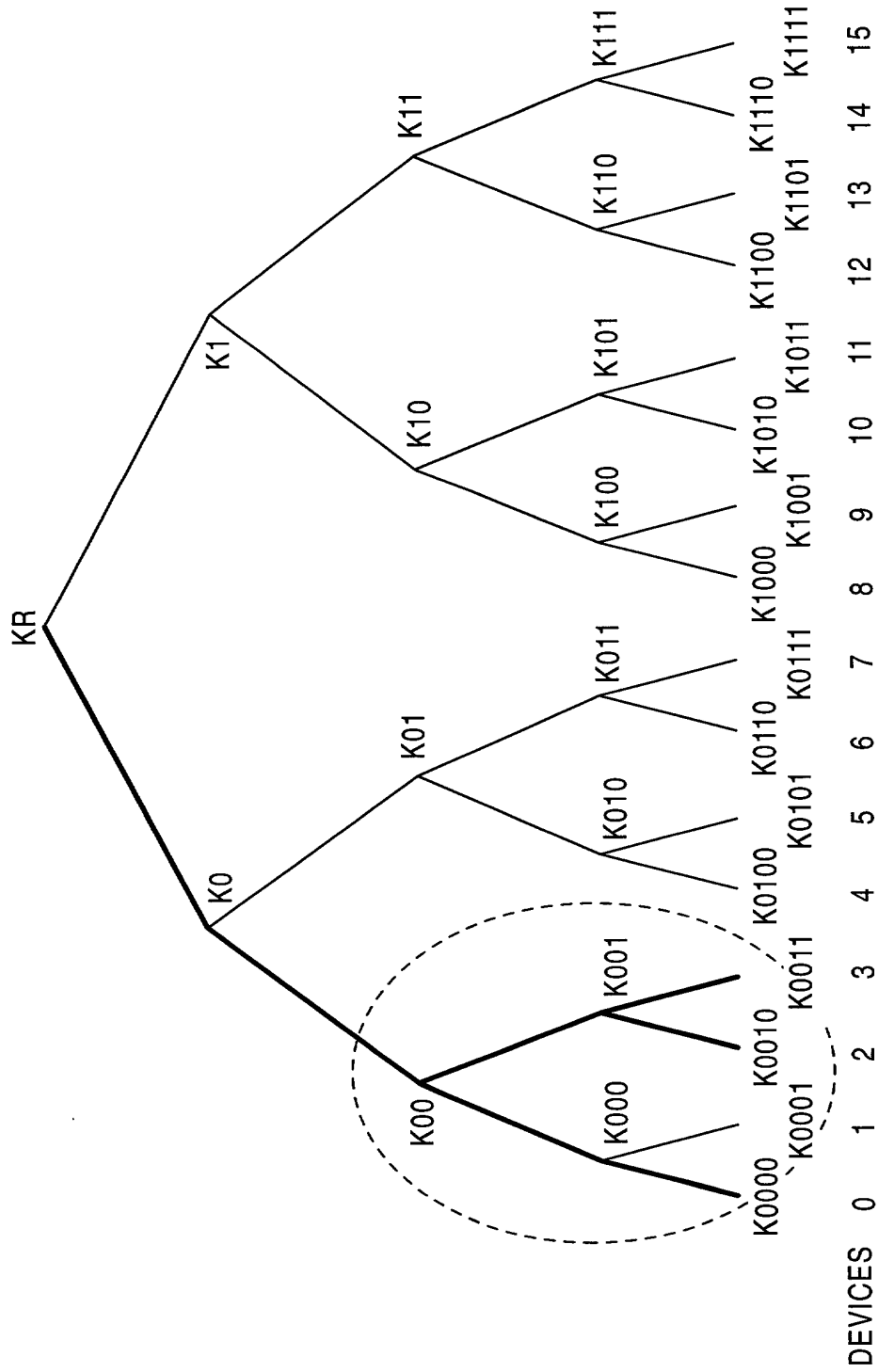


FIG. 25

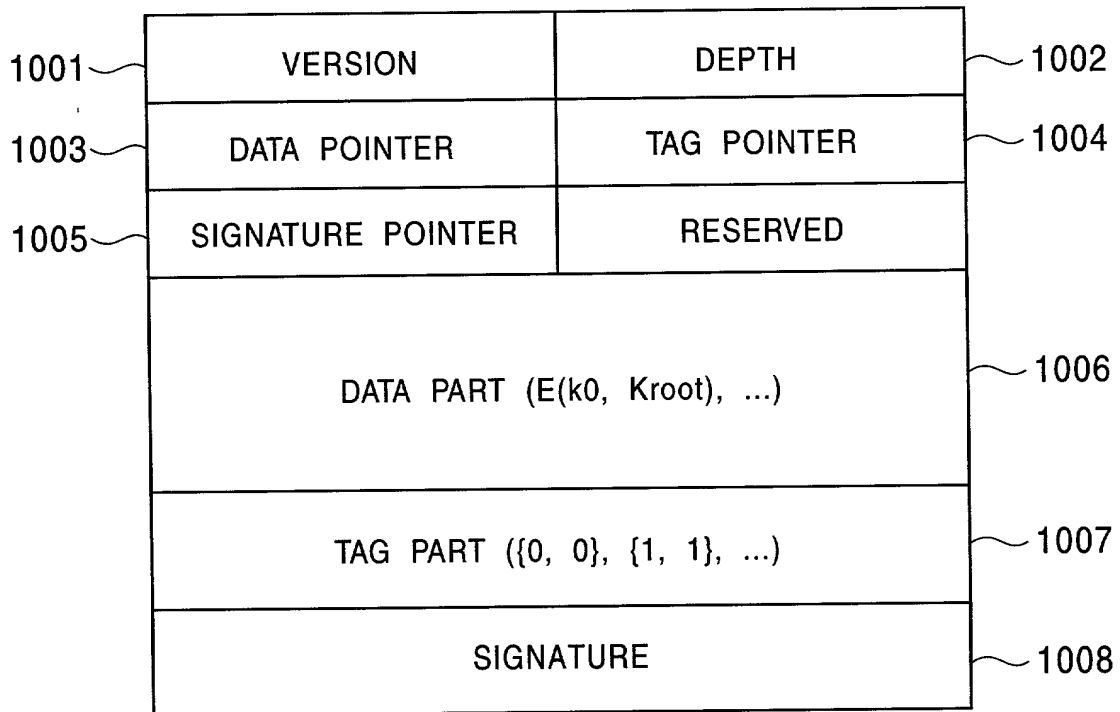


FIG. 26

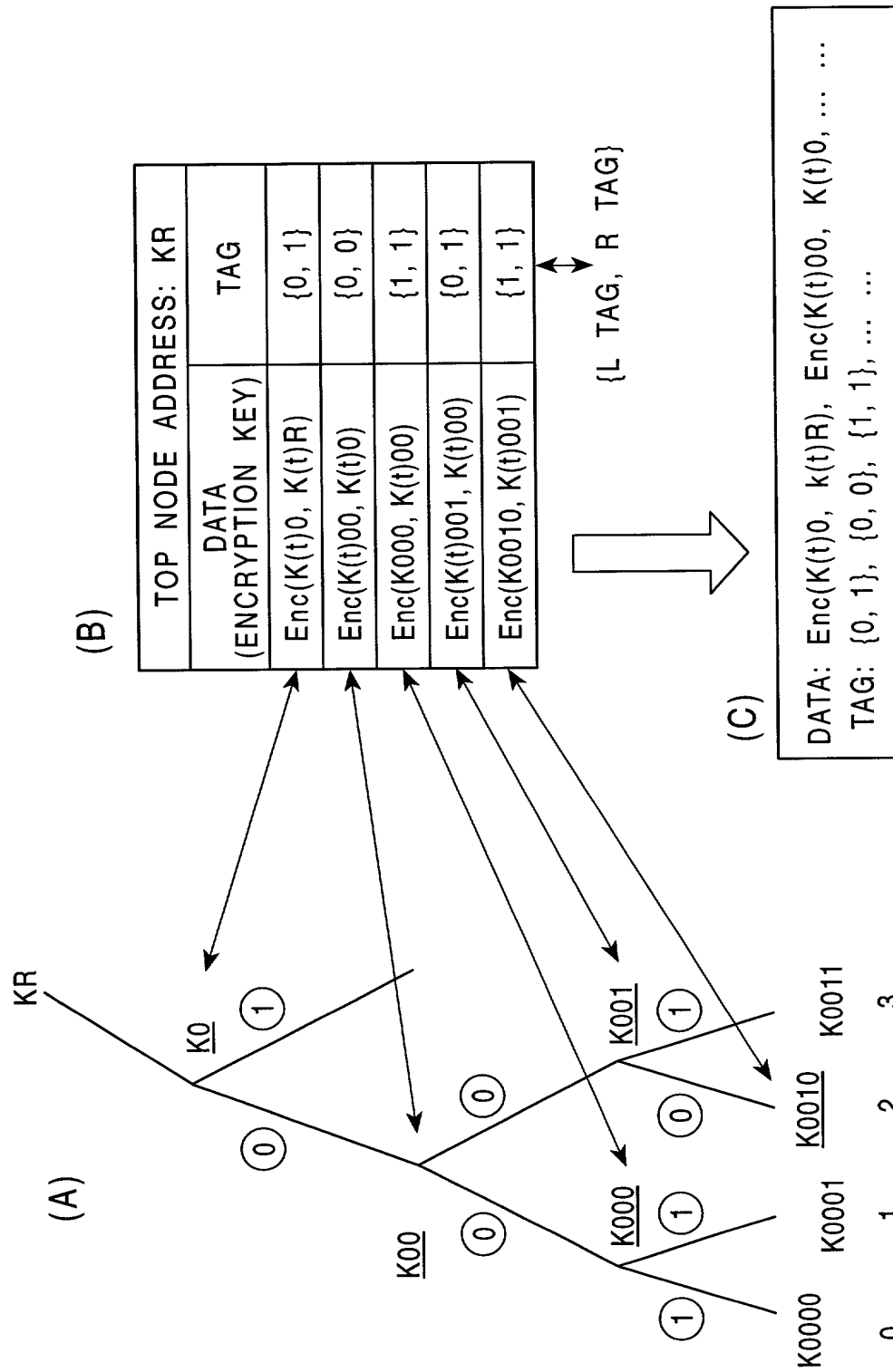


FIG. 27A

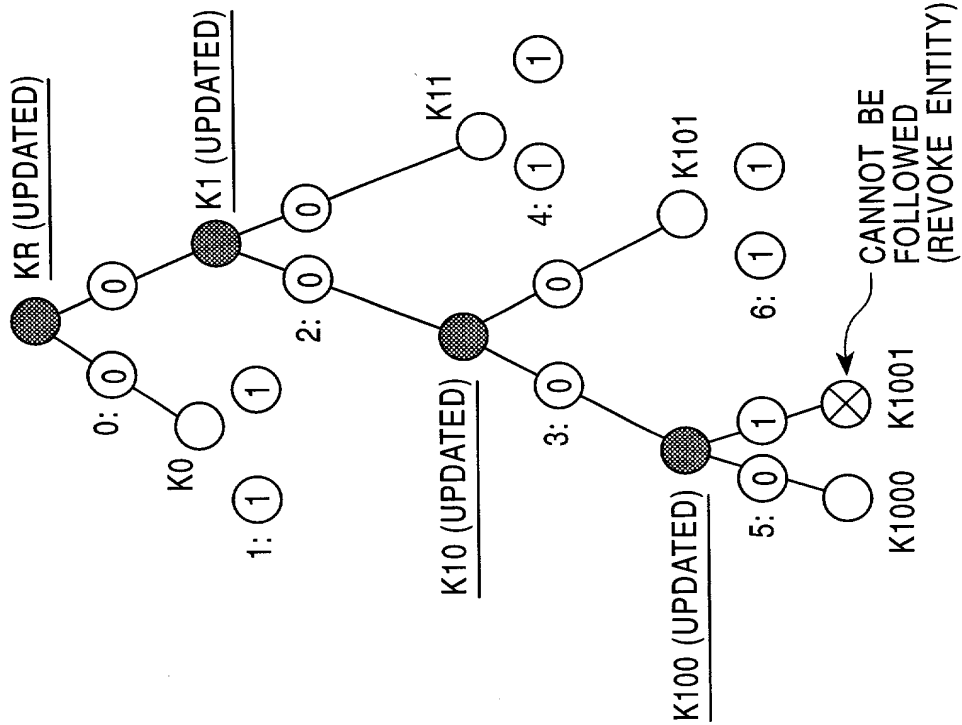


FIG. 27B

DATA (ENCRYPTION KEY)	$\text{Enc}(K0, K(t)R)$ $\text{Enc}(K(t)10, K(t)1)$ $\text{Enc}(K(t)100, K(t)10)$ $\text{Enc}(K(t)1000, K(t)100)$
TAG	0: {0, 0}, 1: {1, 1}, 2: {0, 0}, 3: {0, 0}, 4: {1, 1}, 5: {0, 1}, 6: {1, 1},

↕
{L TAG, R TAG}

FIG. 28A

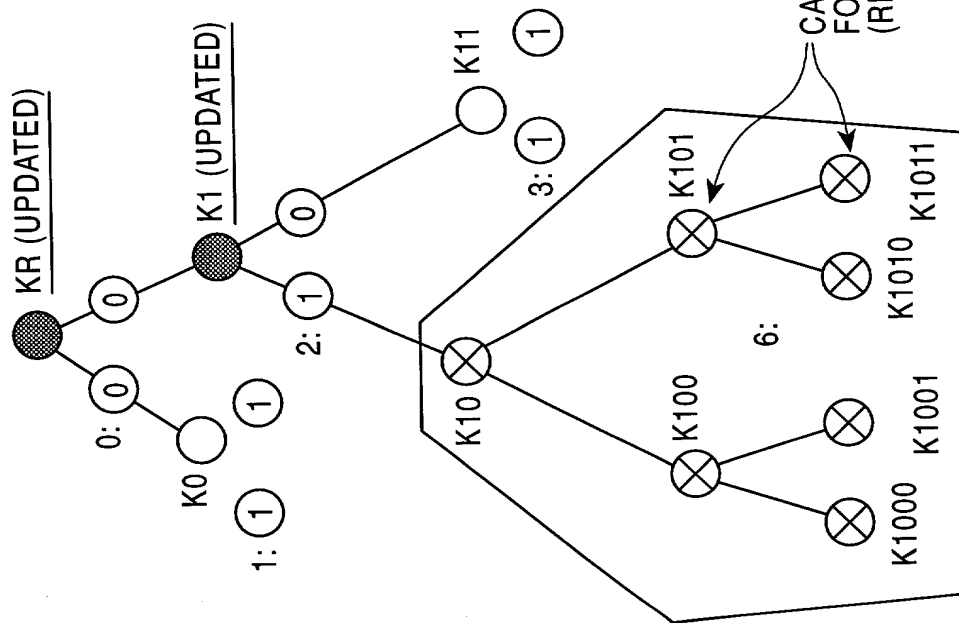


FIG. 28B

DATA (ENCRYPTION KEY)	Enc(K0, K(t)R), Enc(K(t)1, K(t)R) Enc(K11, K(t)1)
TAG	0: {0, 0}, 1: {1, 1}, 2: {1, 0}, 3: {1, 1}

↕
{L TAG, R TAG}

FIG. 29

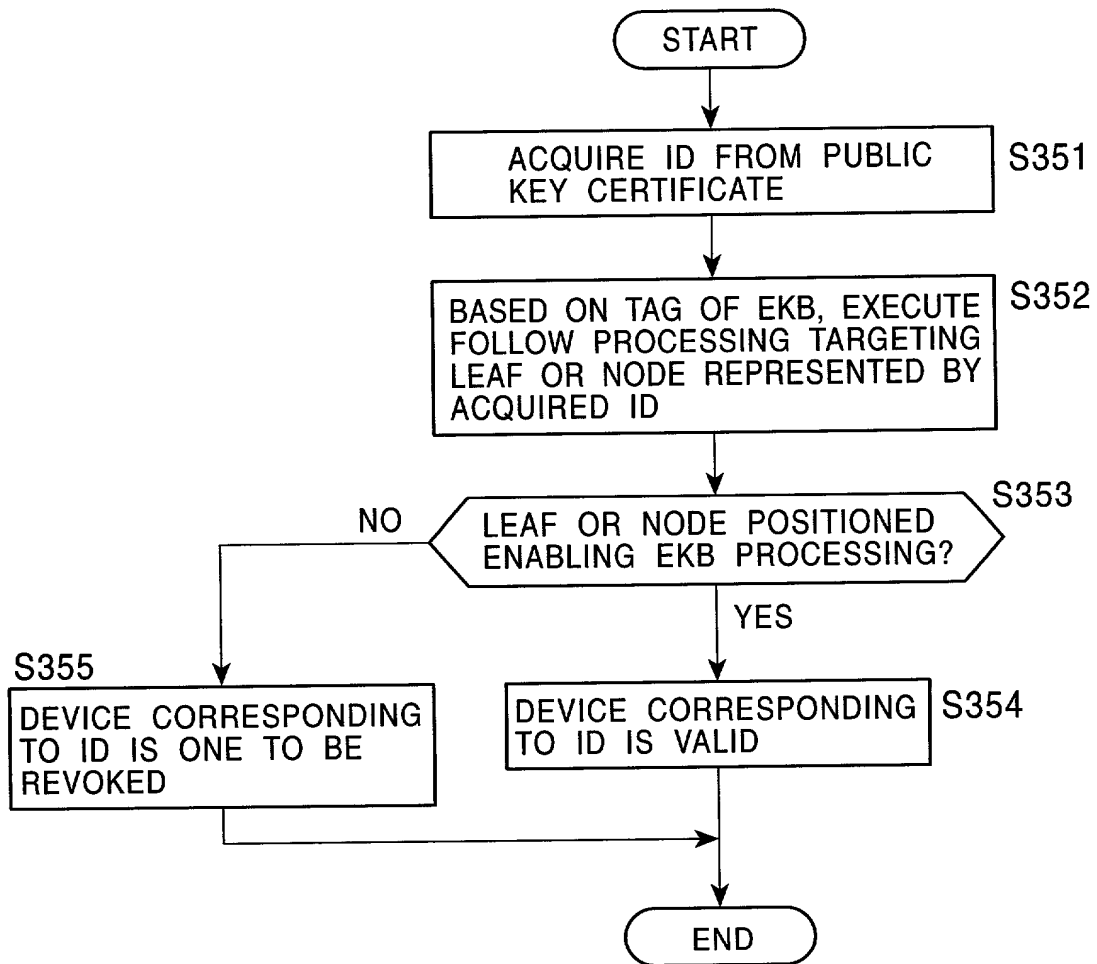


FIG. 30

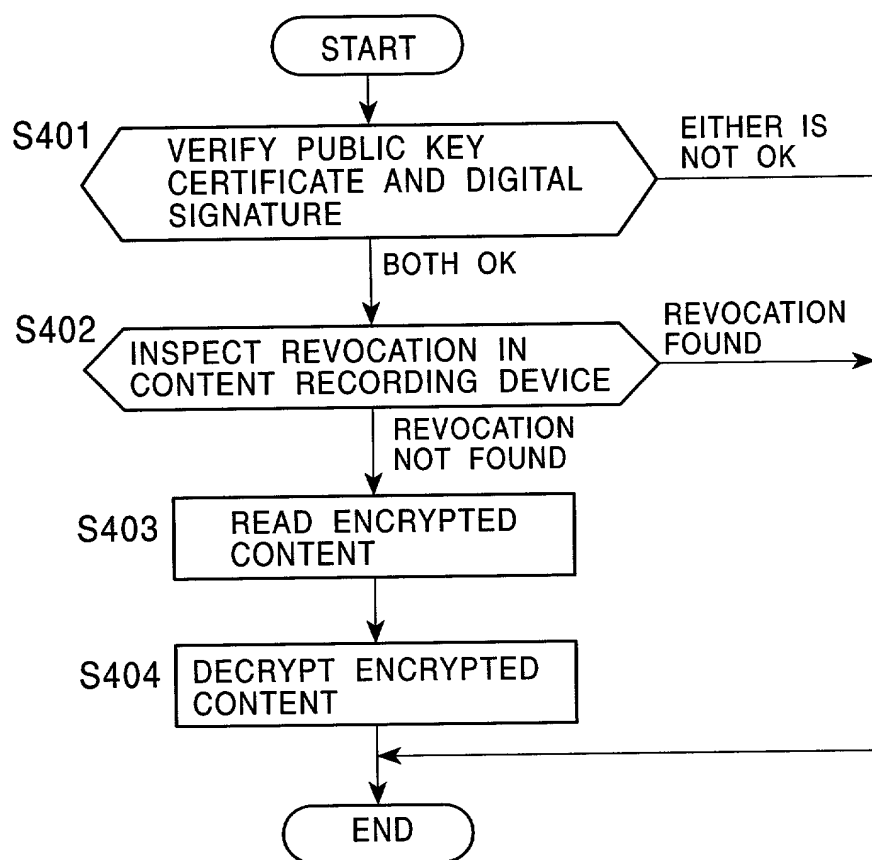


FIG. 31

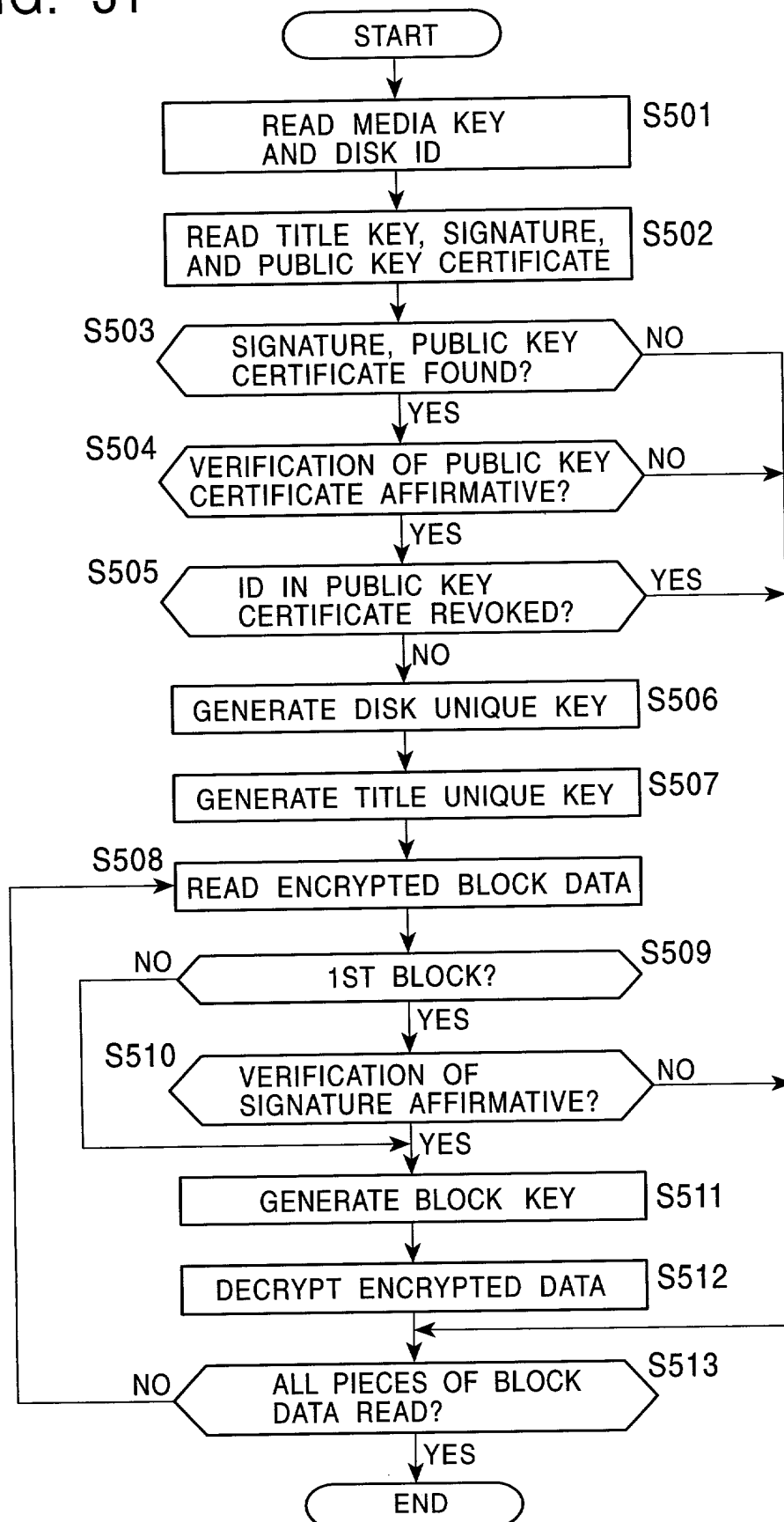


FIG. 32

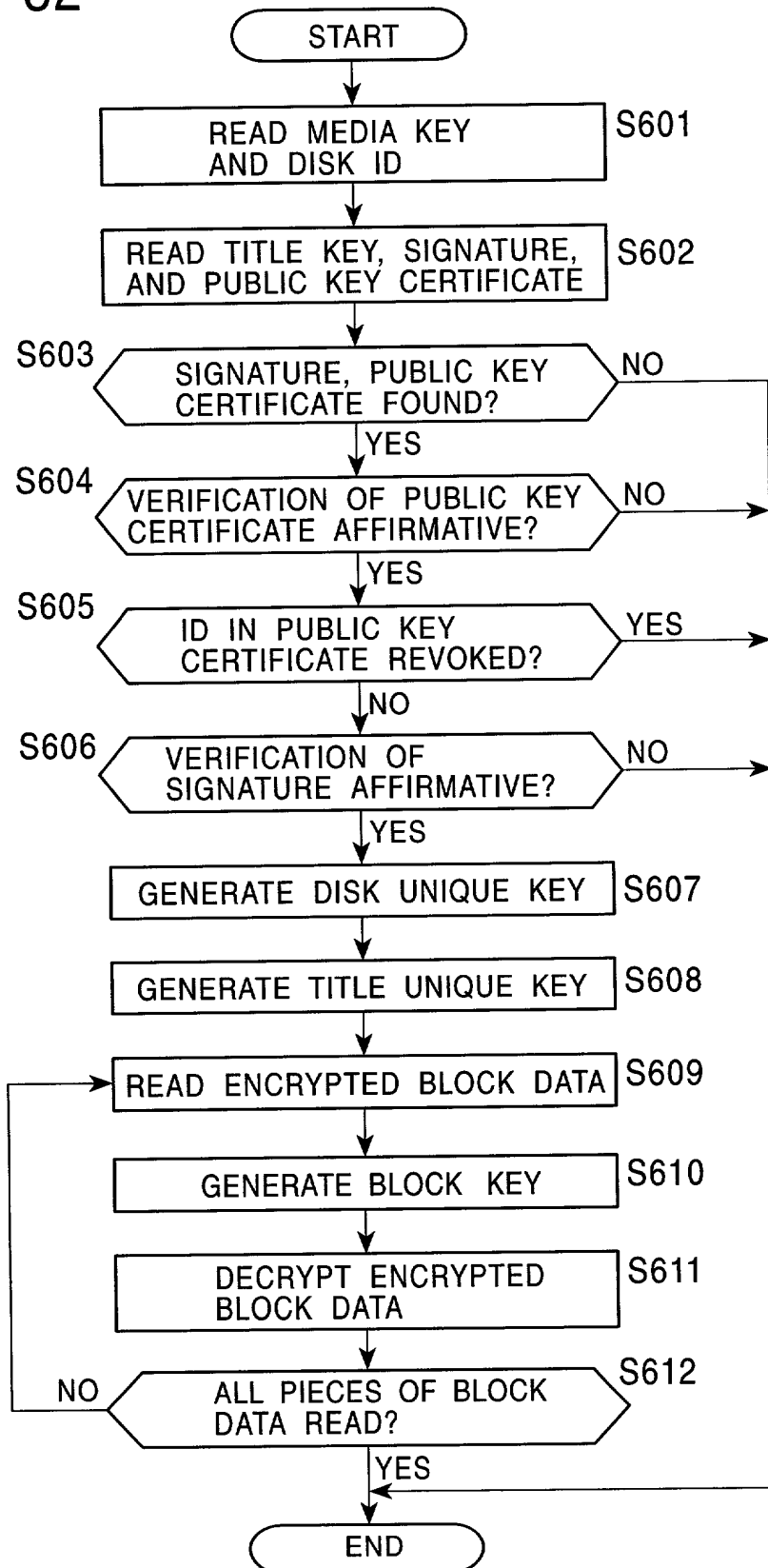


FIG. 33A

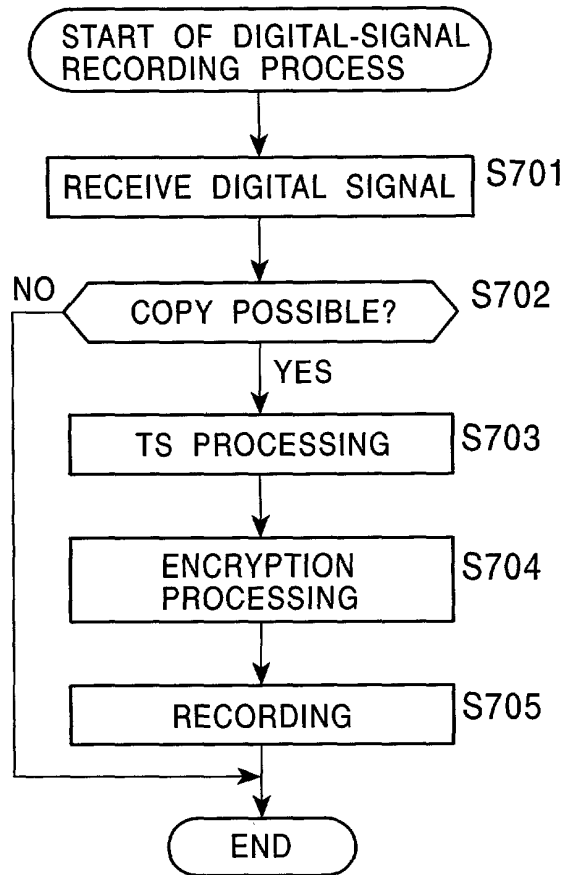


FIG. 33B

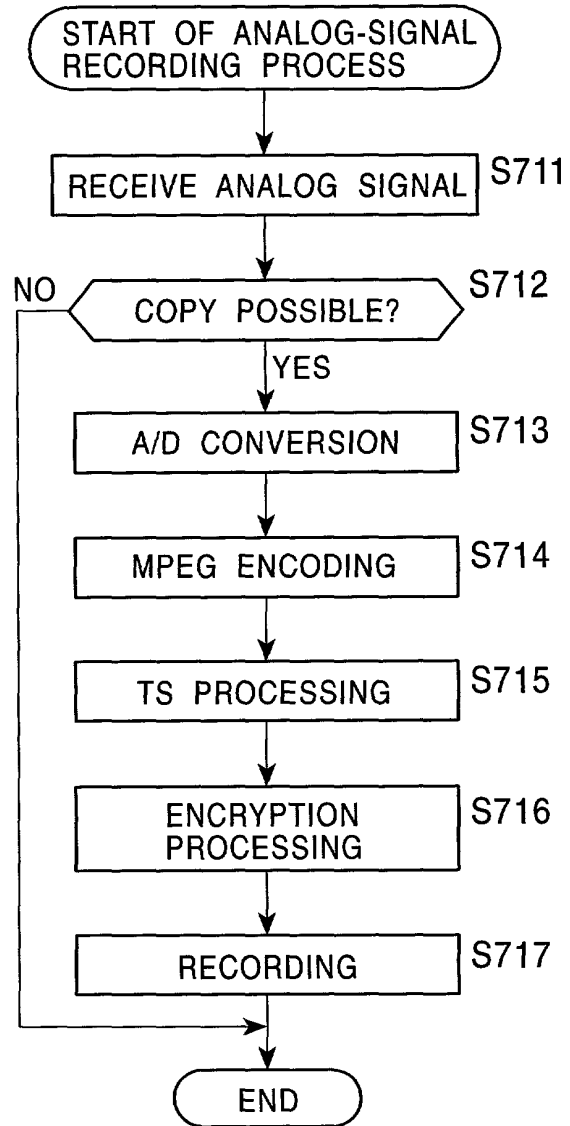


FIG. 34A

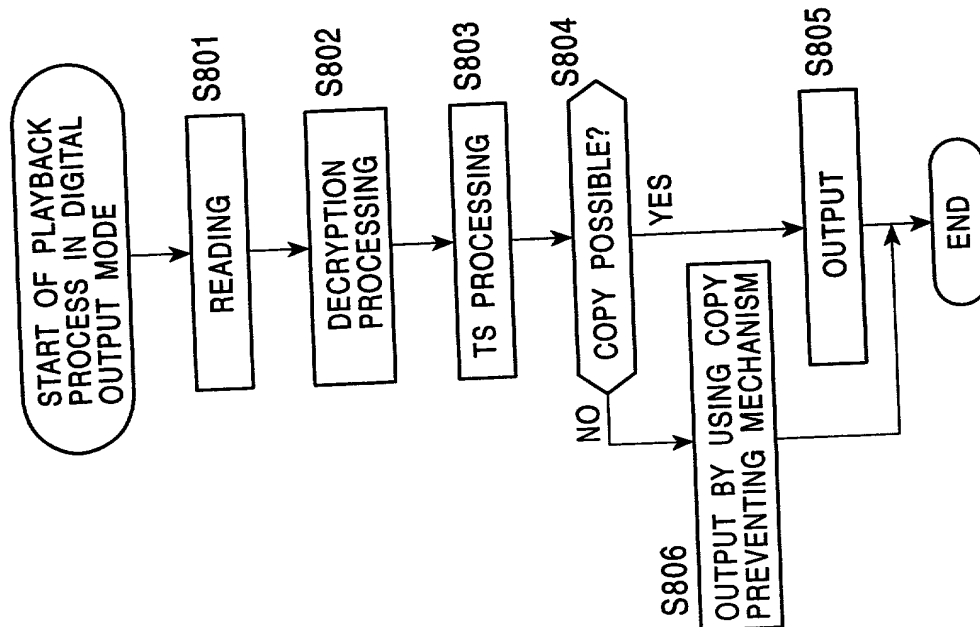


FIG. 34B

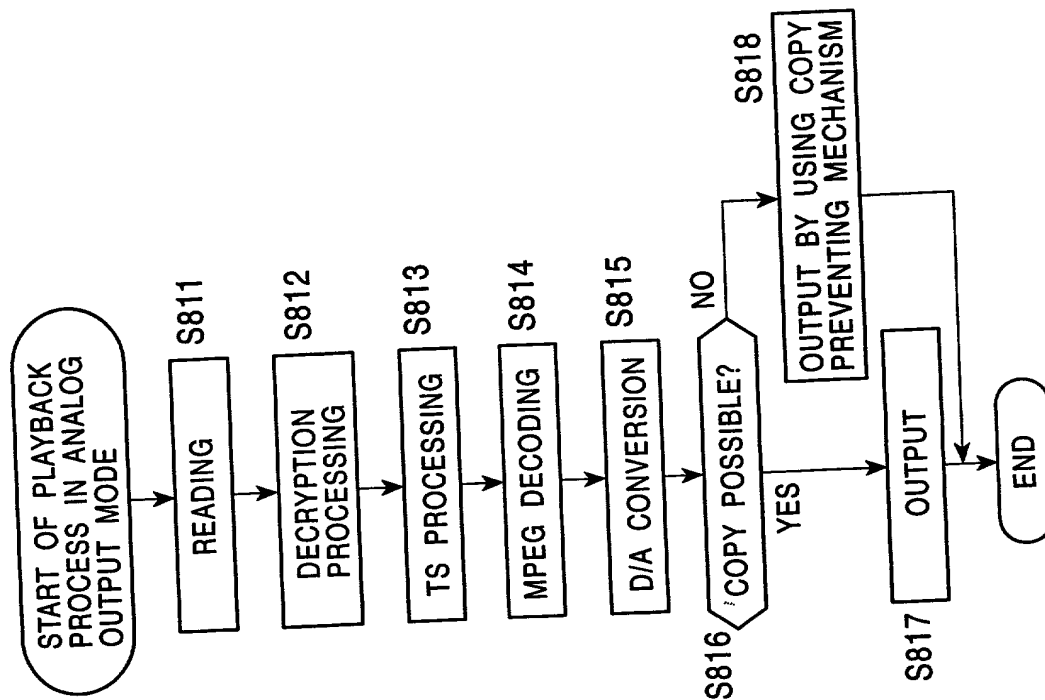


FIG. 35

